

Kiawah Island Corridor Study

March 1, 2022

Prepared for:



Prepared by:

Kimley»»Horn

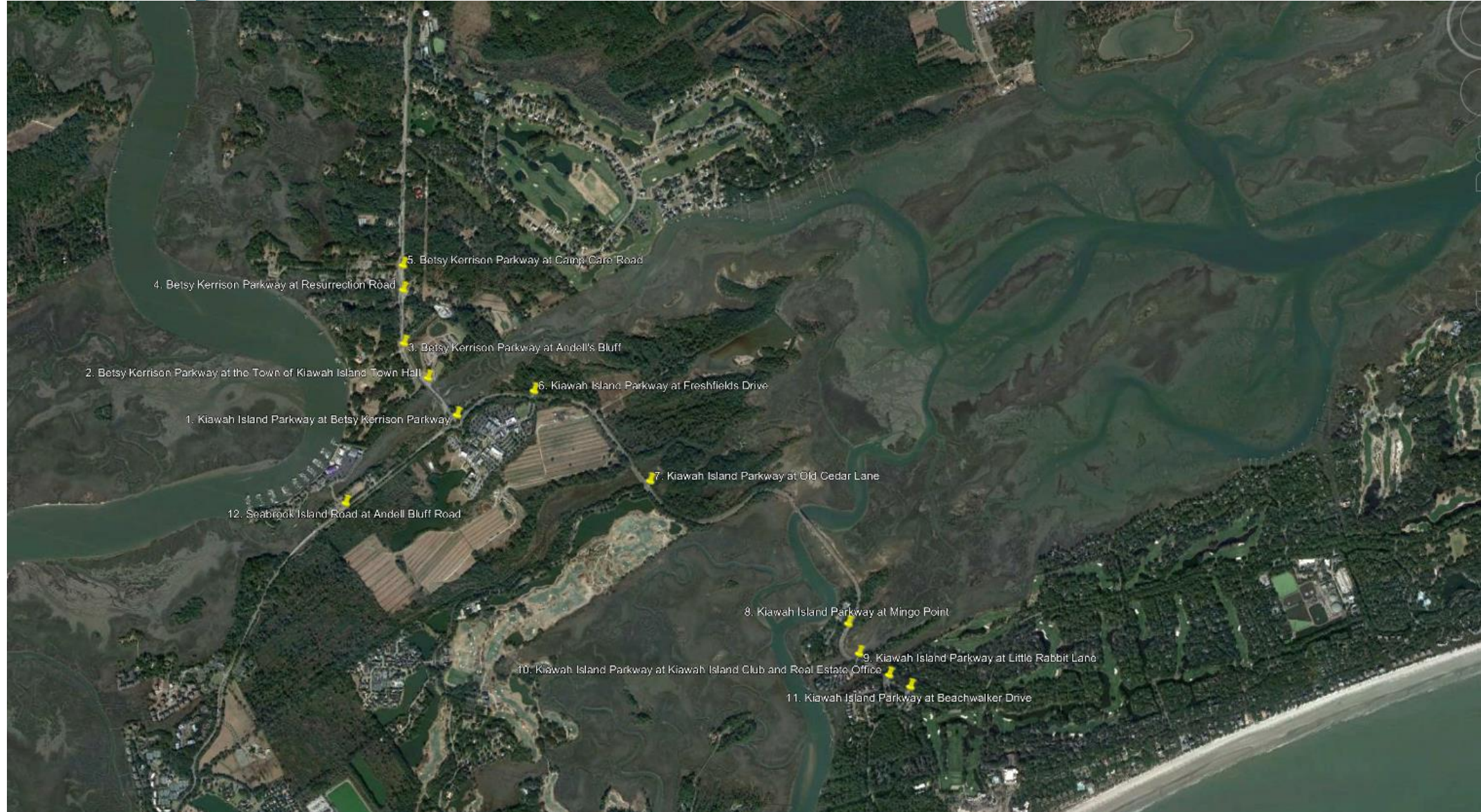


Study Approach

- 1 Meet with the Town of Kiawah Island
- 2 Collect data
- 3 Observations, analysis, evaluation, & short term/long term recommendations
- 4 Review recommendations with the Town of Kiawah Island
- 5 Finalization of recommendations and report



Study Area

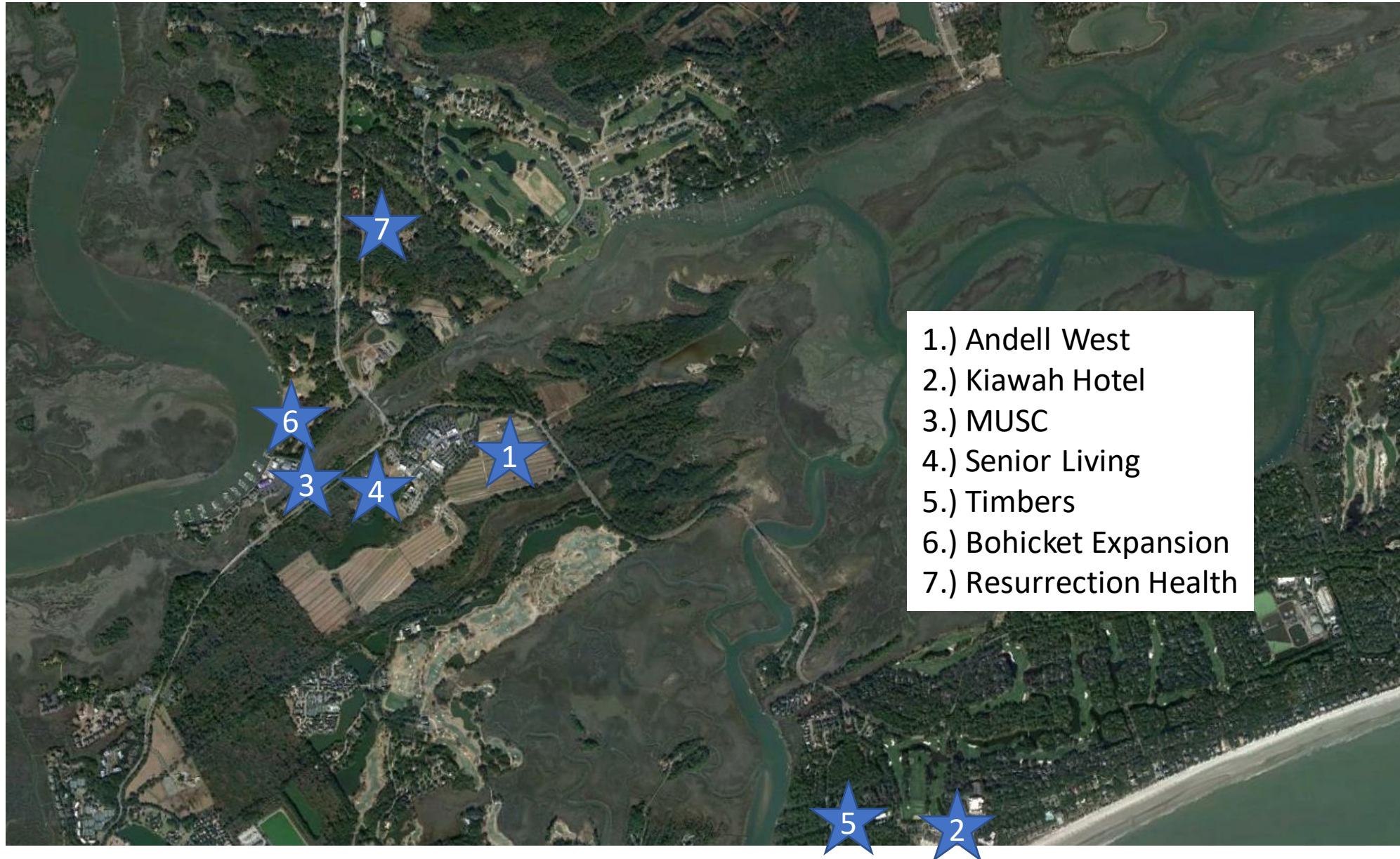


Data Collection

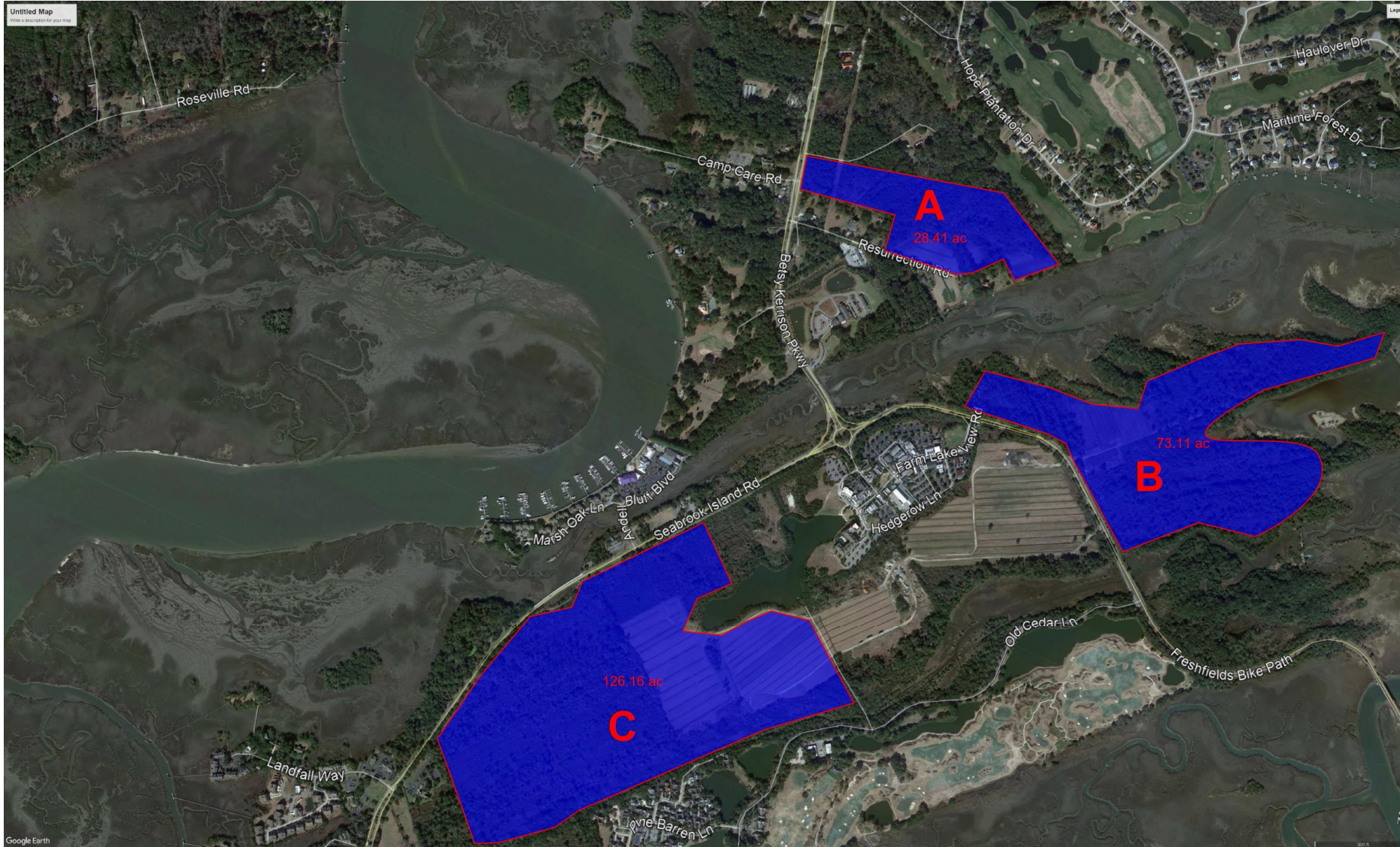
- 1 Tube counts collected Thursday, Friday, and Saturday 9/23-9/25
- 2 Thursday counts were the highest, used for AM and PM peak hour analysis
- 3 Collected upcoming development data from the Town for short term development (2026)
- 4 Reviewed vacant land to determine potential land uses for long term development (2036)
- 5 Used this data for short and long term analysis



Short Term Approved Developments



Long Term Approved Developments



Lot A

- 14,000 SF Retail
- 3,000 SF Restaurant
- 24 Single Family DU
- 48 Multi-Family DU

Lot B

- 40,000 SF Retail
- 68 Single Family DU
- 240 Multi-Family DU

Lot C

- 50,000 SF Retail
- 10,000 SF Restaurant
- 308 Single Family DU

Results – Key Notes

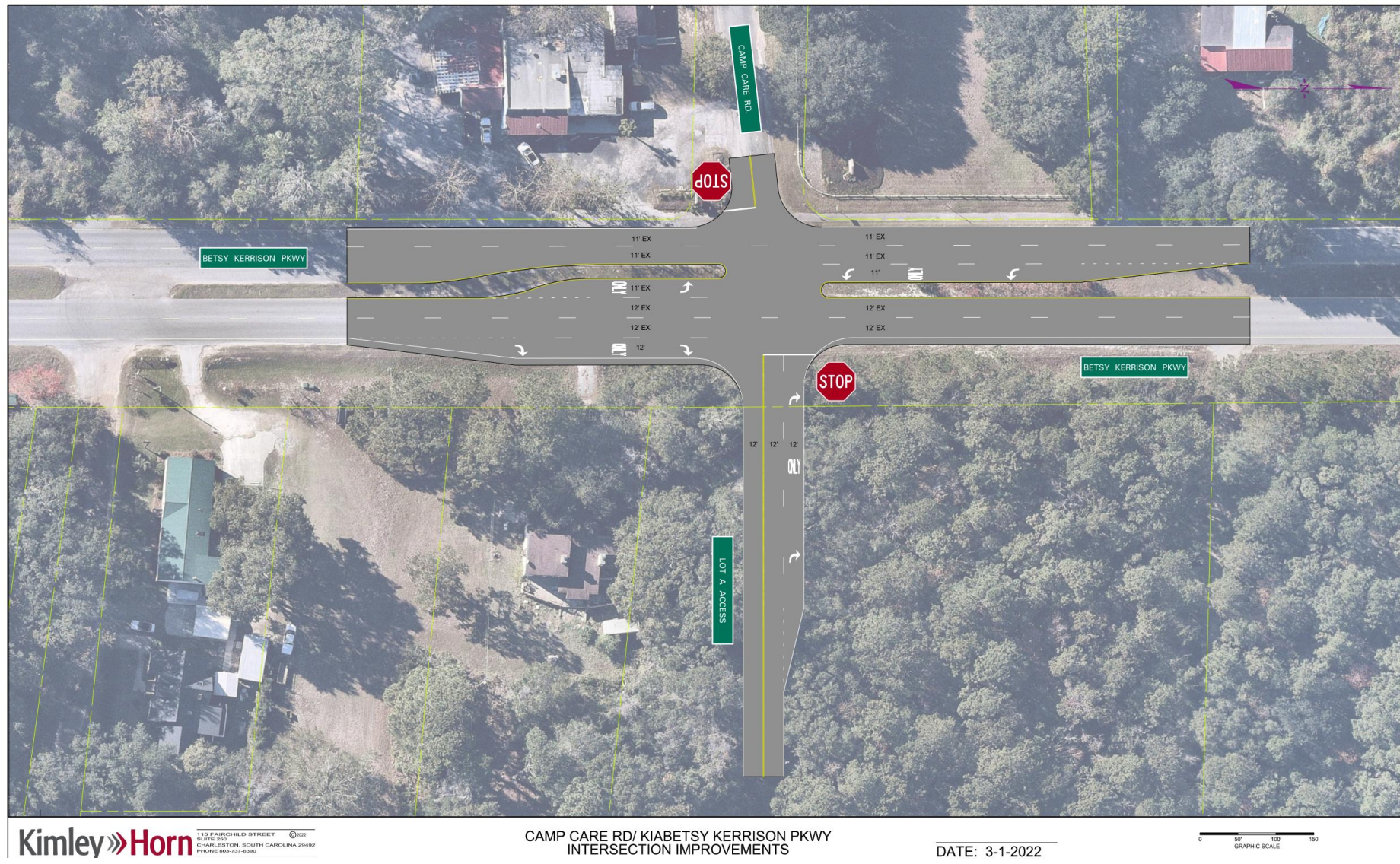
- 1.) Kiawah Island Parkway at Betsy Kerrison fails during the 2036 long term analysis
 - A turbo roundabout should be considered for future conditions
- 2.) Camp Care Road at Future Lot A fails
 - Turn lanes on Betsy Kerrison are recommended
- 3.) Old Cedar Lane fails during the long term conditions
 - Turn lanes recommended on Old Cedar Lane
- 4.) A free-flow lane exiting Kiawah Island at Beachwalker Drive is recommended
 - This would result in:
 - Improved traffic flow
 - The Real Estate Office would become a RI/RO access on Kiawah Island Parkway
- 5.) The future Andell West Property should be signalized on Kiawah Island Parkway
 - A roundabout operates well in the short term but fails long term
 - A signal will allow for gaps for the side-street movements
- 6.) If possible, it is strongly recommended Andell West interconnect to Freshfields
 - The existing Freshfields access on the Kiawah Island Parkway is recommended to become a RI/RO
- 7.) Bohicket Marina access on Seabrook Island Road is recommended to become a roundabout

Concept 1 – Kiawah Island Pkwy at Betsy Kerrison Pkwy



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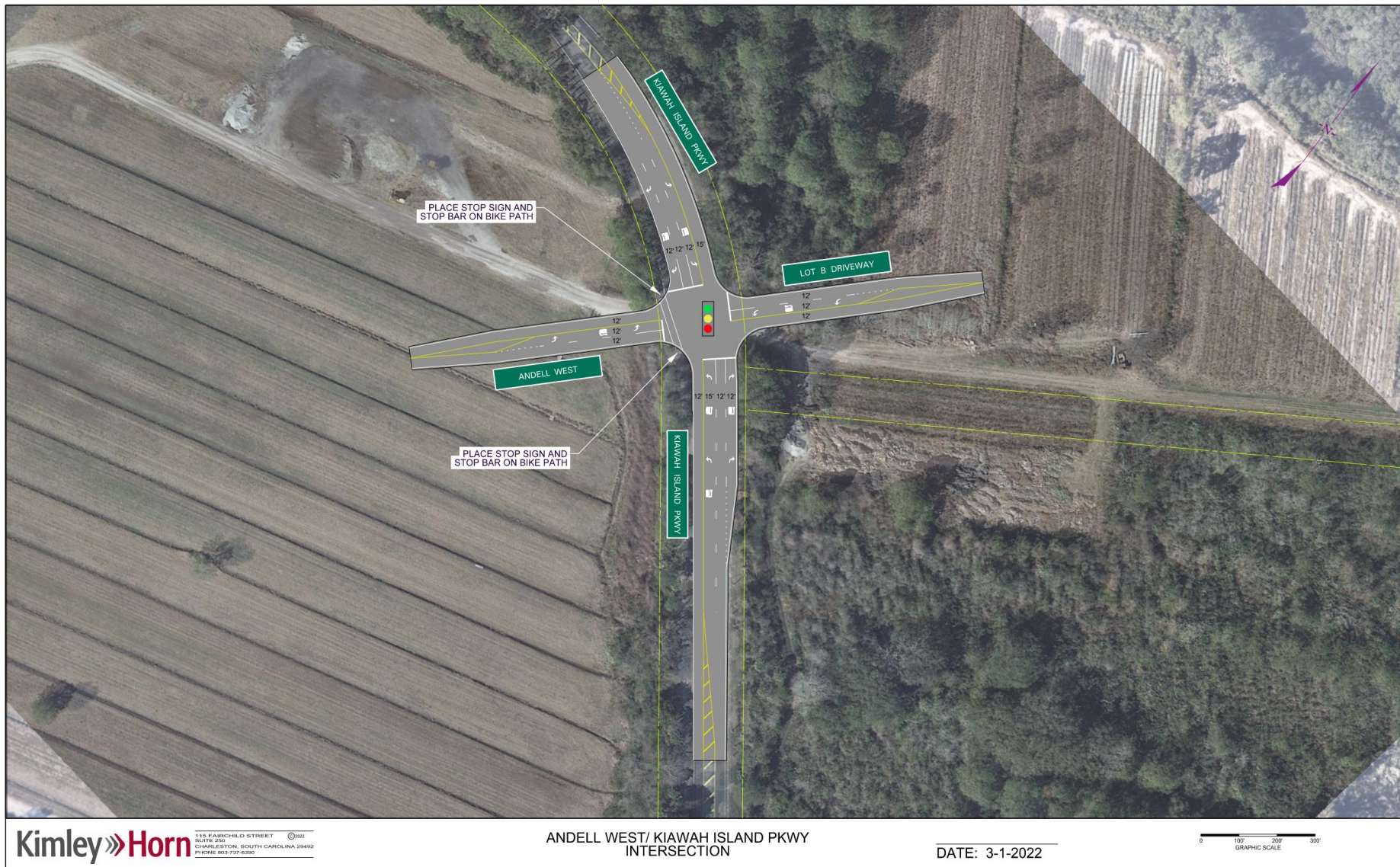
Concept 2 – Camp Care Road at Future Lot A



Concept 3 – Kiawah Island Parkway at Beachwalker Drive



Concept 4 – Andell West Traffic Signal on KIP



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Concept 5 – Freshfields at KIP Access Modification



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Concept 6 – Old Cedar Lane at Kiawah Island Parkway



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Concept 7 – Bohicket Marina at Seabrook Island Road RAB



Next Steps

- 1 Review results with Town Staff
- 2 Update recommendations/concepts if necessary
- 3 Provide the Town with a draft report
- 4 Respond to report comments from the Town
- 5 Finalize report with concepts





Questions



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